

CONTRACT AWARD		STATE OF ALASKA HQ, STATE EQUIPMENT FLEET (Contracting Authority) 2200 E. 42nd Avenue Anchorage, Alaska 99508 (907-269-0800)		CONTRACT AWARD NUMBER	
				1607369	
ORDERING DEPARTMENT		COMMODITY CODE		DATE OF CONTRACT	
HEADQUARTERS, STATE EQUIPMENT FLEET 2200 E. 42ND AVENUE ANCHORAGE, ALASKA 99508		NUMBER & PERIOD OF RENEWAL OPTIONS 3 YEAR CONTRACT		5/5/07	
		DATE INITIAL CONTRACT BEGINS 5/5/07		PR NO./DATE ASSIGNED	
				DATE INITIAL CONTRACT ENDS 5/4/10	
CONTRACTOR YUKON EQUIPMENT		GS VENDOR CODE:			
ADDRESS 2020 E. 3RD AVENUE ANCHORAGE, ALASKA 99501		ISSUED IN ACCORDANCE WITH BID # SEF- 1129 DATED: 5/5/07			
		PRICE ADJ. REQ. PRIOR TO EACH RENEWALSEE CONTRACT			
CONTACT NAME EARL LACKEY		CPI/PPI BASE INDEX POINTS & MO/YR:			
TELEPHONE NUMBER 907-277-1541		REVIEW DATE: 1/1/10 RENEW ALS EXPIRE (MO/YR):			
		ESTIMATED VALUE OF INITIAL TERM: \$500,000.00 REBID: 1/1/10			
SEND INVOICES IN DUPLICATE TO: DOT&PF, STATE EQUIPMENT FLEET, 2200 E. 42ND AVENUE, ANCHORAGE AK 99508					
NOTE: This order constitutes a binding commitment between the State and the contractor listed hereon. Unauthorized modification without the expressed prior approval of the contracting authority will result in a financial obligation on the contractor and/or unauthorized State personnel making the change.					
DESCRIPTION THREE YEAR CONTRACT FOR THE PURCHASE OF AGRICULTURE TRACTORS AND MOWING EQUIPMENT TABLE OF CONTENTS SECTION I. STANDARD TERMS & CONDITIONS II. SPECIAL TERMS & CONDITIONS III. OFFER IV. BID PRICE SCHEDULE V. SPECIFICATIONS					
CONTRACTING AUTHORITY NAME & TITLE KRISTI PETTY, CONTRACTING OFFICER II				SIGNATURE	
TELEPHONE NO: 907-269-0793 FAX NO: 907-269-0801					
IMPORTANT 1. Contract award number and ordering department name must appear on all invoices and documents relating to this order. 2. The State is registered for tax free transactions under Chapter 32, IRS Code Registration No. 92-601185. Items are for the exclusive use of the State and not for resale.					

SECTION I

STANDARD TERMS AND CONDITIONS

- 1.0 ACCESSORIES:** When accessories are supplied, they must be certified to be compatible with the rest of the equipment. Certification will be written evidence satisfactory to the State that the accessories are compatible.
- 2.0 ALTERATIONS:** The contractor must obtain the written approval from the contracting officer prior to making any alterations to the specifications contained in this ITB. The State will not pay for alterations that are not approved in advance and in writing by the contracting officer.
- 3.0 ASSIGNMENT:** A bidder may not assign any portion of a contract unless authorized in advance and in writing by the Contracting officer.
- 4.0 COMPLIANCE WITH ALL GOVERNMENT REGULATIONS:** The contractor must comply with all applicable federal, state, and borough regulations, codes, and laws, and pay all applicable federal, state, and borough taxes, and is liable for all required insurance, licenses, permits, and bonds. Failure to comply with such requirements shall constitute a breach of contract and shall be grounds for contract cancellation. Damages or costs resulting from noncompliance shall be the sole responsibility of the contractor.
- 5.0 CONFLICT OF INTEREST:** A person employed by the State of Alaska may not seek to acquire, be a party to, or possess a financial interest in, this contract if they are an employee of the administrative unit that supervises the award of this contract or they have the power to take or withhold official action to affect the contract.
- 6.0 CONTRACT PERIOD:** The contract period is from the date of award for three years (36 months) with no options to renew.
- 7.0 DEFAULT:** In case of contractor default, the State may procure the goods or services from another source and hold the contractor responsible for any resulting excess costs and may seek other remedies under law or equity. Alaska Statutes and Regulations provide for suspension and disbarment of non-responsible contractors.
- 8.0 DELIVERY:** All deliveries shall be F.O.B. final destination point with all transportation and handling charges paid by bidder. Responsibility and liability for loss or damage shall remain with the contractor until final inspection and acceptance, when responsibility shall pass to the State except as to latent defects, fraud and contractor's warranty obligations.
- 9.0 DISCONTINUED ITEMS:** In the event an item is discontinued by the manufacturer during the life of the contract, another item may be substituted, provided that the contracting officer makes a written determination that it is equal or better than the discontinued item and provided that it is sold at the same price or less than the discontinued item.
- 10.0 DISPUTES:** Any disputes arising out of this contract shall be resolved under the laws of Alaska. An appeal or any original action to enforce any provision of this agreement must be in the superior court for the First Judicial District of Alaska.

11.0 FORCE MAJEURE (Impossibility to perform): Neither party to this contract shall be held responsible for delay or default caused by acts of God and/or war, which is beyond that party's reasonable control. The State may terminate this contract upon written notice after determining such delay or default will reasonably prevent successful performance of the contract.

12.0 HUMAN TRAFFICKING:

12.1 By signature on this contract, the contractor certifies that:

12.1.1 the contractor is not established and headquartered or incorporated and headquartered, in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report; or

12.1.2 if the contractor is established and headquartered or incorporated and headquartered, in a country recognized as Tier 3 in the most recent United States Department of State's Trafficking in Persons Report, a certified copy of the offeror's policy against human trafficking must be submitted to the State of Alaska prior to contract award.

12.2 The most recent United States Department of State's Trafficking in Persons Report can be found at the following website: www.state.gov/g/tip/

12.3 Failure to comply with this requirement will cause the state to cancel the contract.

12.4 This pertains to goods and services above \$50,000.00.

13.0 INDEMNIFICATION: The contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the contractor under this agreement. The contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the contractor and the independent negligence of the contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the contracting agency's selection, administration, monitoring, or controlling of the contractor and in approving or accepting the contractor's work.

14.0 INSPECTIONS: Goods furnished under this contract are subject to inspection and test by the State at times and places determined by the State. If the State finds goods furnished to be incomplete or not in compliance with contract specifications, the State may reject the goods and require the contractor to either correct them without charge or deliver them at a reduced price, which is equitable under the circumstances. If the contractor is unable or refuses to correct such goods within a time deemed reasonable by the State, the State may cancel the order in whole or in part. Nothing in this paragraph shall adversely affect the State's rights as buyer, including all remedies and rights granted by Alaska statutes.

15.0 INSURANCE:

15.1 Without limiting the contractor's indemnification, it is agreed that the contractor shall purchase at its own expense and maintain in force at all times during the

performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a 30-day prior notice of cancellation, nonrenewal or material change of conditions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

15.2 Proof of insurance is required for the following:

15.2.1 Workers' Compensation Insurance: The contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

15.2.2 Commercial General Liability Insurance: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

15.2.3 Commercial Automobile Liability Insurance: covering all vehicles used by the contractor in the performance of services under this agreement with minimum coverage limits of \$300,000 combined single limit per occurrence.

15.3 Failure to supply satisfactory proof of insurance within the time required will cause the State to declare the contractor non-responsive.

16.0 ITEM UPGRADES: The State reserves the right to accept upgrades to models on the basic contract when the upgrades improve the way the equipment operates or improve the accuracy of the equipment. Such upgraded items must be at the same price as the items in the basic contract.

17.0 NEW EQUIPMENT: Unless otherwise stated, equipment offered in response to this ITB must be new. New equipment means equipment that is currently in production by the manufacturer and is still the latest model, edition or version generally offered. The equipment must be warranted as new by the manufacturer and may not have been used for any purpose, other than display (not demonstration), prior to its sale to the State. The State will not accept remanufactured, used or reconditioned equipment, including used or reconditioned components or parts of. It is the contractor's responsibility to ensure that each piece of equipment delivered to the State complies with this requirement. A contract's failure to comply with this requirement will cause the State to seek remedies under breach of contract.

18.0 PAYMENT: Payment for agreements under \$500,000 for the undisputed purchase of goods or services provided to a State agency will be made within 30 days of the receipt of a proper billing or the delivery of the goods or services to the location(s) specified in the agreement, whichever is later. A late payment is subject to 1.5% interest per month

on the unpaid balance. Interest will not be paid if there is a dispute or if there is an agreement, which establishes a lower interest rate or precludes the charging of interest.

- 19.0 QUANTITIES:** The State reserves the right to reduce or increase the quantity of items ordered under any contract resulting from this contract.
- 20.0 SEVERABILITY:** If any provision of this contract is declared by a court to be illegal or in conflict with any law, the validity of the remaining terms and provisions shall not be affected.
- 21.0 SHIPPING DAMAGE:** The State will not accept or pay for damaged goods. The contractor must file all claims against the carrier(s) for damages incurred to items in transit from the point of origin to the ultimate destination. The State will provide the contractor with written notice when damaged goods are received.
- 22.0 STANDARD AND SPECIAL TERMS AND CONDITIONS:** The terms and conditions of this section are standard to State of Alaska, Department of Transportation and Public Facilities, Statewide Equipment Fleet contracts for the purchase of goods. There may also be other special terms and conditions in an Invitation to Bid or Request for Proposal which apply only to this contract. In the event of a conflict between the standard and special terms and conditions, the Special Terms and Conditions take precedence.
- 23.0 SUCCESSORS IN INTEREST:** This contract shall be binding upon successors and assigns.
- 24.0 SUITABLE MATERIALS:** All materials, supplies or equipment offered by a bidder shall be new, unused, of recent manufacture, and suitable for the manufacturer's intended purpose unless the specifications allow for used, rebuilt or remanufactured equipment.
- 25.0 TAXES:** Prices quoted in bids must be exclusive of federal, state, and local taxes. If the contractor believes that certain taxes are payable by the State, the contractor may list such taxes separately, directly below the bid price for the affected item. The State is exempt from Federal Excise Tax because articles purchased are for the exclusive use of the State of Alaska.
- 26.0 WARRANTY:** Unless otherwise stated, all equipment shall be new and current model and shall carry full factory warranties. The contractor warrants all goods delivered to be free from defects in labor, material and manufacture and to be in compliance with contract specifications. All implied or expressed warranty provisions of the Uniform Commercial Code apply. All warranties shall be for and benefit the State.

SECTION II

SPECIAL TERMS AND CONDITIONS

1.0 DELIVERY:

- 1.1 **Pre-delivery service:** Prior to delivery, each vehicle, piece of equipment or attachment shall be serviced and inspected by the dealer or his agent. A certification of this inspection must include the following (as applicable to the type of equipment):
 - 1.1.1 Dealer and vehicle identification.
 - 1.1.2 Check-off of service and inspection performed including a list of all fluids including type weight and specification that are in the equipment as delivered for all fluid compartments.
 - 1.1.3 The vehicle's crankcase, differential and transmission, and other fluid compartments shall be filled to the manufacturer's recommended capacity.
 - 1.1.4 Fuel tank shall be filled to at least register a minimum $\frac{1}{4}$ full on the fuel gauge, unless restricted by the commercial carrier, when the vehicle arrives at the delivery location.
 - 1.1.5 The vehicle shall be clean and free from defects when delivered and should be ready for immediate and continued use upon delivery.
 - 1.1.6 Units delivered in an incomplete state, or that have deficiencies per the specification, are subject to the damage charges as noted in paragraph 4.0 below.
- 1.2 **Delivery Receipt:**
 - 1.2.1 A delivery receipt will be required for the delivered unit. The receipt must be filled out by the vendor, and acknowledged by state receiving personnel by signature and date of actual receipt of equipment. One copy of this delivery receipt is to be given to the state-receiving agency. The original shall accompany the vendor's invoice to support and properly identify the vehicle delivered.
 - 1.2.2 Vendors are cautioned and advised that such delivery forms or other receiving type documents will not in any way be construed to mean the state has formally and fully accepted unit(s) referenced thereon as complete and meeting every specification set forth. The Regional Equipment Manager is to be contacted regarding delivery coordination and contacts.
 - 1.2.3 Under no conditions will warranty documents be presented at time of delivery for signature. Only the Contracting Officer or designee may sign warranty documentation.

2.0 LINE SHEETS/BILL OF MATERIALS:

- 2.1 It is required within 30 days after delivery that the successful bidder provide a comprehensive listing of all components used to assemble the unit.
- 2.2 This includes any components installed by the manufacturer or any subcontractor or the successful contractor.
- 2.3 Information will include at a minimum, when available, make, model serial number on items such as engines, transmissions, axles, tires, bodies, plows, snow wings, belly blades, cranes, etc.
 - 2.3.1 On after-market items that are installed, part numbers with descriptions, such as, but not limited to hydraulic fittings, are to be provided.

3.0 F.O.B. POINT:

- 3.1 The F.O.B. point for all items purchased under this contract is the final destination anywhere within the State of Alaska. Ownership of and title to the ordered items remains with the contractor until the items have been delivered at their final destination and are accepted by the State.
- 3.2 The cost of shipping and delivery for orders beyond the limits of Seattle/Tacoma dock will be handled as follows. The contractor will prepay the shipping and delivery charges to any destination named by the State in its order. The contractor will charge-back those shipping and delivery charges to the State as a separate line item on the State's invoice.
- 3.3 All shipping charges over \$100 must be documented by a copy of the actual shipping invoice and received with the invoice charge to the State.

4.0 DAMAGES FOR LATE DELIVERY AND NON-CONFORMING GOODS:

- 4.1 Time is of the essence in this contract. The Bidder is expected to deliver goods that conform in all material respects to the contract specifications on or before the date provided therein, as may be amended by written agreement of the parties.
- 4.2 In the event that the goods are delivered late or in the event that the goods do not conform in all material respects to the contract specifications, the State shall be entitled to offset against the Contract Price, as liquidated damages and not as a penalty, an amount equal to an amount equal to one (1) percent of the total individual purchase order cost, per day, multiplied by the number of calendar days elapsing between the delivery date provided in the specifications and the date that conforming goods are delivered to the State. The number of days for which liquidated damages shall apply shall include, in the case of non-conforming goods, the time reasonably necessary for the State to inspect the goods.
- 4.3 These liquidated damages represent a reasonable estimate of amounts necessary to compensate the State for loss of use of the goods during the period in which the goods would have been available to the State if conforming goods had been timely delivered.

5.0 WARRANTY:

5.1 Unless otherwise stipulated by this ITB, the successful bidder will provide a three-year (36-month) two-part warranty.

5.1.1 Part One:

5.1.1.1 Full Warranty Coverage includes all cost of labor, parts, freight of parts or associated tools, transportation and travel in the Anchorage, Fairbanks and Juneau areas (within a 10 mile radius) lubricants, miscellaneous cost, etc., to place the unit in like-new condition.

5.1.1.2 Full Warranty Coverage includes all cost of labor, parts, freight of parts or associated tools, transportation and travel in the Anchorage, Fairbanks and Juneau areas (within a 10 mile radius) lubricants, miscellaneous cost, etc., to place the unit in like-new condition.

5.1.1.3 Warranty repairs shall take place at the vendor's warranty service centers in Anchorage, Fairbanks and Juneau. All travel costs for warranty performed outside of these areas will be billed as follows:

5.1.1.3.1 Travel Labor Charge, as per Section V – Bid Price Schedule. Travel labor will only be reimbursed for the time the employee is traveling from a warranty service center to the in-service location and return.

5.1.1.3.2 Mileage Charge, from the warranty service center to the in-service location, as per Section V – Bid Price Schedule.

5.1.1.3.3 Meals are paid at actual and charges must be accompanied by receipts and are not to exceed the State's maximum authorized \$60.00 per full day.

5.1.1.3.4 Transportation, such as airfare (coach), shall be reimbursed at actual and all charges are to be accompanied by a receipt/copy of the ticket.

5.1.1.3.5 Lodging shall be reimbursed at actual and shall not exceed \$100.00 per night unless no other lodging is available. Requests for reimbursement must be accompanied by a receipt.

5.1.1.3.6 Travel must be charged from the closest warranty service center to the in-service location unless otherwise approved by the Contract Administrator.

5.1.2 Part Two:

5.1.2.1 **Additional Warranty Coverage** for the succeeding 24-months (years two and three) to be 100% parts only at the closest (Anchorage, Fairbanks, Juneau) location. Vendor to pay

freight.

5.1.2.2 Additional Warranty Coverage (Part Two) includes parts only (or component exchange) for all **major power and drive train components**, including freight (Anchorage, Fairbanks, Juneau), to place the unit back in good operating condition.

5.1.2.3 Major power and drive train components include the engine, transmission, torque converter, differential(s), planetary drives, main hydraulic pump, and any other major components recognized in the equipment industry as belonging to the power or drive train.

5.1.2.4 Should the manufacturer's standard warranty exceed the minimum State warranty requirements, the manufacturer's warranty will run in conjunction with and enhance the State's warranty, then continue for the remainder of its term.

5.1.1 The bidder is responsible for all freight, transportation, and per diem. Per diem and mileage will be paid at the applicable rate for State employees. Per diem and mileage will commence when travel status begins and will continue until return travel status is completed. Air transportation will be reimbursed for actual cost for coach (economy class). The state will not pay a contractor's hourly shop rate during travel or per diem status.

5.1.2 If the state receives from any manufacturer or supplier additional or extended warranty on the whole or any component of the unit, in the form of time and/or mileage, including any pro rata arrangements, or the manufacturer generally extends to fleet customers a greater or extended warranty coverage, the state shall receive corresponding warranty benefits.

5.2 **General Warranty Requirements for all Equipment:**

5.2.1 **Warranty Exceptions:**

5.2.1.1 For clarification, warranty does not apply to normal wear and tear or maintenance items, accident damages, misuse of equipment or failure to operate or maintain equipment as prescribed by vendor/manufacture.

5.2.2 **Warranty on Attachments:**

5.2.2.1 One (1) year (12-months) full (100%) warranty minimum.

5.2.3 **In-Service Date:**

5.2.3.1 Warranty on vehicles not placed in service immediately upon receipt because of time lag to construct body components and/or installation of special equipment, or due to seasonal usage or other delay, shall be warranted from the date the vehicle is placed in service. The receiving agency shall notify the vendor/manufacture in writing of the actual "in service" date. Notification of the requirement for delayed warranty will be provided on delivery orders whenever possible.

5.2.4 **Authorized Warranty Dealer (Contractor) and Subcontractor:** For the purpose of this bid, the contractor must meet the following applicable requirements:

5.2.4.1 Contractor (bidder) must:

5.2.4.1.1 be a manufacturer(s) authorized warranty service dealer for the unit, a minimum of one year, and;

5.2.4.1.2 have the capability of providing warranty servicing and repair work within the State of Alaska, with an authorized warranty repair facility in Anchorage, as a minimum.

5.2.4.2 Contractor, if appropriate, shall submit the name, address, Alaska business license of any subcontractor who will provide the warranty servicing and repair work referenced in paragraph 5.1 above. The Contractor must also provide contractual documentation or agreements with the subcontractor insuring the state that the subcontractor will provide complete contract performance on behalf of the contractor as set forth in this ITB and verification that the work provided will maintain manufacturer's warranty requirements.

5.2.4.2.1 Approval of all subcontractors must take place prior to the bid opening.

5.2.4.2.2 The use of a subcontractor does not exclude the provisions as noted in paragraphs 5.2.4.1, and subsequent paragraphs, as requirements to the contractor.

5.2.5 **Warranty Claims:**

5.2.5.1 Warranty will be provided at the unit's assigned (in-service) location. Because of the remote location of some equipment it is not always practical to deliver equipment to authorized warranty repair facilities. In these cases, the vendor may perform warranty work at the state's location or, the State of Alaska, at its discretion, reserves the right to perform the warranty work and be reimbursed by the vendor.

5.2.5.2 The State of Alaska has established a warranty procedure whereby the vendor is to be notified via letter, telex, fax, etc. that warranty work needs to be performed. If time is of the essence, a telephone call confirmed by one of the above written procedures may be utilized. The vendor must notify the state immediately that it will begin to perform the warranty work at the equipment location within 48 hours from receipt of written notification. The State may, at its discretion, proceed to make warranty repairs with its own work force in the case of emergency situation or to preclude excessive downtime (greater than 48 hours).

5.2.5.3 Failure to notify the State that the vendor intends to begin warranty work by the end of the business day following the state's notification that work is required to be performed is considered a contractual breach.

5.2.6 The vendor will be invoiced for required warranty work performed by the state. The shop rate to be charged for warranty work performed by the state will be \$86.00 per hour. Labor hours to be charged will be in accordance with appropriate flat rate manuals. If flat rate manuals do not cover the labor operation, actual repair time will be used. Warranty work performed by state shop personnel at locations where no shop personnel are permanently stationed may be subject to travel expenses incurred involving those warranty repairs.

5.2.7 Factory Recall:

5.2.7.1 Nationwide factory recall or product update programs are the responsibility of the vendor and/or manufacturer. The State will attempt to bring affected equipment to an authorized repair facility. However, because of the remoteness of some equipment this is not always practicable or economical. In such cases, factory recall and modification work will be handled the same as warranty work. Factory recall notices sent to the state should, in addition to serial number, include model, year, and dealer from whom purchased.

5.2.8 **Hazardous Material:**

5.2.8.1 Due to concerns about liability resulting from hazardous materials being left at the work site on State of Alaska property, effective immediately no vendors will be allowed to use the State of Alaska rural airport facilities to perform warranty work unless they agree and sign a letter of intent stating that all waste products including oils, coolant and garbage will be removed from the work site. Vendors should note that in some village locations other suitable facilities might be available for rent from local residents or village authority.

6.0 REPAIR ORDERS AND DOCUMENTATION: Any work performed by the contractor or approved subcontractor, whether warranty or any other work on a piece of equipment purchased under this ITB, will require a copy of the repair order, any invoices showing parts and commodities including oils and types used.

7.0 PUBLICATIONS:

- 7.1 Publications are to be received by the State of Alaska no later than 10 days after receipt of the unit. Custom manuals may be delivered no later than 90 days after receipt of the unit. Delivery will not be considered complete until the publications for each unit have been received by the State of Alaska. Note: Publications, when required, will be ordered on the same Purchase Order as the unit itself.
 - 7.1.1 All manuals are to be pre-assembled in factory binders prior to delivery.
 - 7.1.2 To be paper (CD's are not acceptable).
- 7.2 **Service Manuals:**
 - 7.2.1 Complete set(s) to include applicable information covering unit:
 - 7.2.2 Body, chassis, and electrical
 - 7.2.3 Electrical troubleshooting
 - 7.2.4 Wiring diagrams
 - 7.2.5 Service specifications
- 7.3 **Parts Manuals:**
 - 7.3.1 Complete set(s) including all updates. If updates are not provided during the warranty period, the State will order them from the manufacturer and bill the contractor for the full cost, including shipping.
- 7.4 **Operator's Manuals:** Complete set(s) to include prime unit.
- 7.5 **Quantities:** As per Section V – Bid Price Schedule.
- 7.6 **Manuals:** To be delivered to, and receipt signed by person(s) as noted on the Purchase Order.
- 7.7 **Service Bulletins, Etc.:** The successful bidder must provide appropriate service bulletins, technical support bulletins, service letters, product support bulletins, and/or any other information type notifications that are sent out to the vendor or used by the manufacturer in the maintenance and report of the vehicle, equipment or attachments being provided. The intent of this clause is that the State of Alaska be provided notification of any and all changes or improvements that may affect the maintenance, reliability, longevity, and safety of our equipment. This information will be provided as soon as possible to person(s) as noted on the Purchase Order.

- 8.0 **STATEMENT OF ORIGIN:** The bidder will be required to furnish a Manufacturer's Statement of Origin for Automotive or Non-Automotive rolling stock for each unit. All such documents shall be forwarded to:

DOT&PF, HQ State Equipment Fleet
2200 E. 42nd Avenue Room #316
Anchorage, Alaska 99508

- 9.0 **WEIGHT VERIFICATION SLIPS:** If required in the Bid Price Schedule, a weight scale ticket of the completed unit will be included with the Statement of Origin.

10.0 INSPECTIONS:

- 10.1 The State's inspection of all materials and equipment upon delivery is for the sole purpose of identification. Such inspection shall not be construed as final or as acceptance of the materials or equipment if materials or equipment do not conform to Contract requirements. If there are any apparent defects in the materials or equipment at the time of delivery, the State will promptly notify the Contractor thereof. Without limiting any other rights of the State, The State at its option, may require the Contractor to:
 - 10.1.1 Repair or replace at Contractor's expense, any or all of the damaged goods,
 - 10.1.2 refund the price of any or all of the damaged goods, or
 - 10.1.3 accept the return of any or all of the damaged goods.
- 10.2 Costs of remedying all defects, indirect and consequential costs of correcting same, and/or removing or replacing any or all of the defective materials or equipment will be charged against the Bidder.

11.0 PRICE:

- 11.1 **Price Guarantee:** The Contractor is responsible to maintain prices under the contract firm for 180 days after bid opening. All price increases or decreases must remain firm for the following 180 days.
- 11.2 **NO RETROACTIVE PRICE INCREASES WILL BE ACCEPTED.**
- 11.3 Price adjustments, increases or decreases, for subsequent model year orders, may be made by providing the Contracting Officer evidence, satisfactory to the Contract Manager, that all of the following conditions exist:
 - 11.3.1 The increase is a result of the increased cost at the manufacturer's level and not costs under the contractor's control, and that;
 - 11.3.1.1 The increase will not produce a higher profit margin for the contractor than that on the original contract, and that;
 - 11.3.1.2 The increase affects only the item(s) that are clearly identified by the contractor.
 - 11.3.1.3 Satisfactory forms of the evidence of the above facts may include a certified invoice from the manufacturer, or an affidavit from an independent professional price-tracking firm that is recognized by the industry as reputable and knowledgeable. The contractor must be able to show the difference between the prior year's price and the current difference in the price being requested.
- 11.4 **Price Decreases:** During the period of the contract, the Contractor must pass on to the state all price decreases, such as fleet rebates. A Contractor's failure to adhere strictly and faithfully to this clause will be considered a material breach of contract.

11.5 The State reserves the right to cancel the contract if the contractor fails to properly perform the duties set out herein.

12.0 MANUFACTURER'S REBATE (INCENTIVES): In any circumstance during or prior to completion of the contract, whereupon the State of Alaska becomes eligible to receive a rebate for any vehicle purchased under this contract, it shall be the BIDDER'S responsibility to inform the Contracting officer in writing and to advise the procedures for obtaining such rebates.

13.0 COOPERATIVE PURCHASING:

- 13.1 All requests to cooperatively purchase, by qualified political subdivisions, from the resulting contract shall be approved by the Contracting Officer. This opportunity to add-on would expire 180 days after the purchase order for the State unit is written.
- 13.2 At no time may the contractor change the terms and conditions, alter the price to another entity, which differs from the contractual price, nor charge undisclosed administrative fees to allow cooperative purchasing.
- 13.3 The Contractor shall charge, and subsequently reimburse to the State after receipt and payment by purchaser, a users fee of 2% or \$1,000.00, whichever is less, for each unit ordered by a qualifying political subdivision. Any administrative fee resulting to the Contractor in fulfillment of this requirement must be included in the bid price of the offered unit.

14.0 REPLACEMENT PARTS:

- 14.1 The State of Alaska shall expect the dealer or manufacturer to provide replacement wear parts at their **Anchorage** (as a minimum Alaska location) authorized warranty facility within seven (7) days of order. All other parts must be available within ten (10) working days.
- 14.2 Back order procedures: Back orders are acceptable; however, the ordering shop shall be apprised at time of original orders as to the expected delay in delivery.
- 14.3 Warranty: All products supplied by the contractor shall be warranted against defects in materials and workmanship for a minimum of 90 days, commencing at the time of installation as long as the installation is within 12 months of purchase. The cost of any defective product and the labor required to replace the defective product shall be the obligation of the contractor.
 - 14.3.1 If the manufacturer's warranty exceeds the stated warranty then manufacturer's warranty supersedes.
 - 14.3.2 Parts Return: Within 12 months of purchase, the State is to be allowed to return new, parts with full refund, less shipping charges.
 - 14.3.3 Invoicing: Full description of item is required on all invoices, packing lists and billings.

15.0 BRAND NAME SPECIFICATION: For purposes of this ITB, certain accessories are specifically identified by brand name and model/part number. Only the listed brand name and model/part numbers are acceptable. Substitutes shall be not allowed.

16.0 ADDITIONS OR DELETIONS: The State reserves the right to add or delete items, agencies or locations as determined to be in the best interest of the State. Added items, agencies or locations will be related to those on contract and will not represent a significant increase or decrease in size or scope of the contract. Such additions or deletions will be documented via mutual agreement, will be at prices consistent with the original bid price margins, and will be evidenced by issuance of a written contract change notice from the Contracting officer.

17.0 CONTRACT ADMINISTRATION: The administration of this contract, including any/all changes, is the responsibility of the Contracting Officer, HQ State Equipment Fleet.

18.0 PROPRIETARY INFORMATION AND STATEMENTS OF CONFIDENTIALITY:

- 18.1 Except as set forth in this provision, all information in all bids will be made public under AS 36.30.530 no later than the time of issuance of notice of intent to award.
- 18.2 If the offeror submits information considered by it to constitute a trade secret or proprietary data, such information may be expressly designated as such, and must be accompanied by the offeror's certification that (1) the information has consistently been maintained by its owner as a trade secret or as proprietary information, (2) the owner of the information has taken due care to protect it from release to non-privileged persons, and (3) to the best knowledge of the offeror, the information has not lost its status as trade secret or proprietary information, whether by lack of diligent protection, release to any non-privileged person or otherwise.
- 18.3 **Absence of such certification, any claim of confidentiality will be ignored, and the bidder may not hold any reasonable expectation of confidentiality.**
- 18.4 Any information so certified will be held confidential so long as the contracting officer concurs that it constitutes a trade secret or proprietary data, and deems it not critical to determination of the price, quantity, or delivery terms bid, or the responsiveness of the bid.
- 18.5 By submission of a bid, the offeror consents to the contracting officer's exercise of reasonable judgment as to concurrence with any assertion of confidentiality, and waives any and all claims for release of information that the contracting officer reasonably deems not confidential notwithstanding a certified assertion of confidentiality.
- 18.6 A certified assertion of confidentiality in which the contracting officer concurs, with respect to information the contracting officer deems critical to determination of the price, quantity, or delivery terms bid, or the responsiveness of the bid, will cause the bid to be rejected as a non-responsive bid.

SECTION III

OFFER

(FOR BIDDER USE ONLY)

If a contract award is made by the State of Alaska, the undersigned offers and agrees to furnish materials, equipment and services in compliance with all terms and conditions specified in ITB/Contract No. SEF-1129. Submittal of this document with authorized signature constitutes full understanding and a promise to comply with all specifications, terms and conditions of ITB/Contract No. SEF-1129.

Yukon Equipment

(Company Name)

2020 E 3rd Avenue

(Address)

Anchorage, AK 99501

(City) (State) (Zip)

Early Lackey

By : _____
(Authorized Representative (printed))

(Title)

907-277-1541

(Phone and Fax No.)

(Email Address)

(Authorized Signature) (Date)

Alaska Business License No. _____ (Section I, paragraph. 16.5)

SECTION IV

BID PRICE SCHEDULE

LOT 1

Counter weights, strobe lights and the communications package will be ordered with the tractor only. Tractors, batwing mowers, and side-boom mowers may be ordered separately. A class #316-125 tractor will also be priced as one (1) unit (side-boom mower mounted to the tractor.)

Item #	Unit	Description	\$ Amount
1a	1 ea.	4x4 Agricultural/Utility Farm Tractor Minimum 85 PTO HP, with 3-Point Hitch Warranty as per Section III – Special Terms and Conditions Per Specification #314-85 contained herein Year / Make / Model Offered: <u>Case IH JX1100U, 85 PTO HP</u>	\$ <u>49,393.000</u>

Specification #314-85's Optional Installed Items - Pricing Required

1b	1ea.	Front Counter Weights (Per Spec Item 3.5)	\$ <u>580.00</u>
1c	1ea.	Strobe Lights (Per Spec Item 4.6.4)	\$ <u>1,598.00</u>
1d	1ea.	Communications Package (Per Spec Item 4.7)	\$ <u>975.00</u>
1e	1 ea.	4x4 Agricultural/Utility Farm Tractor Minimum 125 PTO HP, with 3-Point Hitch Warranty as per Section III – Special Terms and Conditions Per Specification #316-125 contained herein Year / Make / Model Offered: <u>Case IH Maxxum 140 Pro, 120 PTO HP, AWD</u>	\$ <u>73,684.00</u>

Specification #316-125's Optional Installed Items - Pricing Required

1f	1ea.	Front Counter Weights (Per Spec Item 3.5)	\$ <u>942.00</u>
1g	1ea.	Strobe Lights (Per Spec Item 4.6.4)	\$ <u>1,598.00</u>
1h	1ea.	Communications Package (Per Spec Item 4.7)	\$ <u>975.00</u>
1i	1ea.	Side-Boom Rotary Mower Attachment (Per Spec Item 9.0)	\$ <u>34,092.00</u>

Make and Model Offered:

Tiger TRB-50C, 50'

The following optional items may be ordered with either the State Class #314-85 or the #316-125 tractor or as a separate purchase – Pricing is Required (The specification can be found in Spec #314-85):

1j	1ea.	10 Foot Batwing Rotary Mower (Per Spec Item 9.0)	\$ <u>16,761.00</u>
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Make and Model Offered:

Schulte XH1000

1k	1ea.	15 Foot Batwing Rotary Mower (Per Spec Item 10.0)	\$ <u>19,598.00</u>
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Make and Model Offered:

Schulte XS1500

The following optional item may be ordered as a separately purchased item for the #316-125 tractor – Pricing is Required (The specification can be found in Spec #316-125):

1L	1ea.	Side-Boom Rotary Mower (NOT installed) (Per Spec Item 9.0)	\$ _____
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Make and Model Offered:

Required Delivery: No later than 180 Days ARO

Required Manuals including Service Bulletins: To include two (2) complete sets per Section III Special Terms and Conditions.

The actual F.O.B. point for all items purchased under this contract is the final destination anywhere within the State of Alaska. Ownership of and title to the ordered items remains with the contractor until the items have been delivered at their final destination and are accepted by the State.

For pricing purposes, the F.O.B. point is dockside Seattle/Tacoma.

The cost of shipping and delivery for orders beyond the limits of Seattle/Tacoma dock will be handled as follows. The contractor will prepay the shipping and delivery charges to any destination named by the State in its order. The contractor will charge-back those shipping and delivery charges to the State as a separate line item on the State's invoice. All shipping charges over \$100 must be documented by a copy of the actual shipping invoice and received with the invoice charge to the State.

Travel Labor Charge: ----- \$ 110.00 Per Hour
Mileage Charge: ----- \$ 2.50 Per Hour

SECTION VI - SPECIFICATIONS

SPECIFICATION #314-85

4x4 Agricultural/Utility Farm Tractor with 3-Point Hitch
With Attachment and Accessories, as per Section V – Bid Price Schedule
Minimum 85 PTO HP
March 13, 2007

GENERAL SPECIFICATION:

It is the purpose of this specification to describe a new, and of the manufacturer's latest current model and design, diesel powered agricultural/utility farm tractor with; diesel engine, minimum 85 PTO HP and four wheel drive. Unit to be equipped with 3-point hitch and attachments (*If requested – See Section V – Bid Price Schedule*).

To include all standard equipment and accessories as advertised in manufacturer's specification sheet of model offered, unless otherwise specified herein.

APPLICATION:

General purpose agricultural use. Unit will be subject to varying terrain and weather conditions to minus 15 degrees Fahrenheit.

UNIT TO BE PROVIDED:

CASE INTERNATIONAL Model JX1100U

1.0 TRACTOR - POWER TRAIN:

1.1 Engine:

- 1.1.1 Diesel, turbocharged, developing a minimum of 98 HP at manufacturers rated engine RPM. 98

98 HP Engine

- 1.1.2 PTO HP: Minimum 85 at manufactures rated engine RPM.

85 PTO HP

- 1.1.3 Displacement: Minimum 4.5 liter.

274 cu. In. displacement, 4.5 liter

1.2 Starting Aids:

- 1.2.1 Glow plug system or grid or Thermostart or single shot canister type operated from inside the cab. The *JOHN-DEERE* Thermal Start Assist System is acceptable.

- 1.2.2 Engine Coolant Heater: One (1) each, immersion type, 110 volt AC, of highest wattage as recommended by OEM engine manufacturer.

- 1.2.3 Engine Oil Pan Heater: Silicone pad type, 300 watt.

- 1.2.4 Transmission Oil Pan Heater: Silicone pad type, 300 watt.

- 1.2.5 110 volt AC power cords for engine and transmission heaters to be plugged into a single, waterproof, 20 amp, 110 volt junction box with a minimum of four (4) receptacles. Male portion of 110 volt AC power cord to be waterproof 20 amp connector for use with 110 volt AC power source located in a position for easy access by ground personnel. To include a matching female connector, 20 amp (to be shipped loose).
 - 1.2.5.1 Junction box to be located in engine compartment, out of the elements.
- 1.3 Warning system: Audio/visual warning system to warn of high engine coolant temperature and low engine oil pressure.
- 1.4 Exhaust System: To include muffler and exhaust pipe with elbow.
- 1.5 Air Intake System:
 - 1.5.1 Two (2) stage, dual element type, air cleaner.
 - 1.5.2 Air filter restriction indicator.
 - 1.5.3 To include pre-cleaner.
- 1.6 Cooling System:
 - 1.6.1 Viscous fan drive.
 - 1.6.2 Permanent type antifreeze protection to minus 60 degrees Fahrenheit.
- 1.7 Fuel System:
 - 1.7.1 Capacity: Minimum 33 gallons, single tank only.
 - 1.7.2 To include spin-on type filter(s).
- 1.8 Oil System: To include spin-on type filter(s).

2.0 TRACTOR - DRIVE TRAIN:

2.1 Transmission:

- 2.1.1 To be synchronized power reverser with minimum 12 speeds forward and four (4) speeds reverse.
24 forward and 24 reverse, 2-speed power shift; power shuttle
- 2.1.2 To provide a minimum forward road speed with the specified rear tires of 17 MPH.
25 MPH
- 2.1.3 To provide traction to all four (4) wheels by a dash or console mounted switch.
- 2.1.4 Transmission to include replaceable filter element, spin-on type where applicable.

2.2 Front Axle: To include limited slip or locking, differential.

Differential lock.

2.3 Rear Axle: To include differential lock/unlock.

Differential lock.

2.4 PTO: Rear drive PTO dual speed of 540 and 1000 RPM.

3.0 TRACTOR - CHASSIS:

3.1 Frame: Non-articulated.

3.2 Steering: To be hydrostatic.

3.3 Brakes: Wet disk type.

3.4 Tires:

- 3.4.1 (*) Front: To be largest tires available, 13.6-24, 8 ply rated, R1 traction bar, minimum. The R1W radial tire is acceptable.)

14.9R24 (R1W)

- 3.4.2 (*) Rear tires to be 18.4-34, 8 ply rated, R1 traction bar, minimum. The R1W Radial Tire is acceptable.

18.4R34 (R1W)

- 3.4.3 To include spare wheel and mounted tire for front and rear (same as above).

3.5 Front Counter Weights: (To be priced as an optional item. Pricing is required. Refer to Section V – Bid Price Schedule.

- 3.5.1 To include OEM Front-end weight bracket with minimum of five (5) each 100 pound removable weights

3.6 Fenders: Front and rear, with extensions, if necessary (OEM). When front end loader attachment is ordered with tractor, front fenders may not be able to be included because of loader arm clearance.

3.7 Tilt hood with engine side shields and front hood guard.

4.0 TRACTOR - ELECTRICAL:

4.1 12-volt negative ground system.

4.2 Battery(s): Minimum 900 total CCA at zero degrees Fahrenheit.

4.3 Alternator: Minimum 100 Amp.

120 AMP Alternator

4.4 Single high ampere master electric switch wired to cut off power source from battery to the ground and remainder of electrical system. To be *COLE HERSEE* # 284-02.

4.5 Backup Alarm: Electronic, self-adjusting sound level, *ACORN PRODUCTS* Model 1D-112AA, *PRECO* Model Preco-Matic 1040, *STAR* Model Starmatic 63-000, or *WARN* Model Reactor 2100504, located on rear of unit.

4.6 Lighting:

4.6.1 Shall be equipped with headlights (halogen), stop lights, tail lights, turn signals, and flashing warning lights.

4.6.1.1 Stop, turn, and tail lights to be LED.

4.6.2 Interior dome light.

4.6.3 Work Lights:

4.6.3.1 Two (2) each, adjustable, front, upper cab, halogen, minimum 55 watt each.

4.6.3.2 Two (2) each, adjustable, rear, upper cab, halogen, minimum 55 watt each.

4.6.3.3 Work lights to be separately switched by driver.

4.6.4 Strobe Lights

4.6.4.1 Shall be two (2) each *WHELEN* Model S360.

4.6.4.2 To be mounted on top of cab and visible from all directions.

4.6.4.3 Both lenses to be amber in color.

4.6.4.4 To be shock mounted (a rubber pad may be used).

4.6.4.5 To be switched "HIGH/OFF/LOW" by driver.

4.7 Communications Package:

- 4.7.1 To include an easily accessible inside the cab fuse block or positive and negative 12-volt terminals for future installation of airport or highway communication radio.
- 4.7.2 Communications Radio Mounting Plate(s)/Bracket(s):
 - 4.7.2.1 Vendor is to provide a mounting plate(s)/bracket(s) for mounting of State owned radio and power supply.
 - 4.7.2.2 For the radio mounting, one manufacturer has been using drilled and tapped (for 3/8 inch bolts) mounting points about 6 inches apart welded to the ROPS on either side of the cab.
 - 4.7.2.3 Plates can then be bolted to these mounting points by the State.
 - 4.7.2.4 On some of the units (wheel loaders) they have included a cover plate of heavy gauge steel bolted to these points, which hides the ROPS and provides even more area to mount our equipment.
 - 4.7.2.5 This system has been working OK (on wheel loaders), but if a manufacturer has a better way of providing a mounting point we can certainly look at it.

4.8 Wiring:

- 4.8.1 All wiring to be color coded or continually numbered.
- 4.8.2 Located for maximum protection from road splash, stone abrasion, grease, oil, fuel, and heat from engine and components.
- 4.8.3 Routing through structural members to be protected by grommets.
- 4.8.4 To be secured by clips at intervals to prevent rubbing or chafing due to movement.
- 4.8.5 All wiring to be protected with wire loom.

5.0 TRACTOR - CAB:

- 5.1 Cab, insulated, shall be original equipment unitized to power unit and shall be certified ROPS.
- 5.2 Cab floor to be flat deck design (straddle mount design is not acceptable).
- 5.3 One (1) piece entry/exit doors, both sides.
- 5.4 Entry steps to include anti-skid treads, both sides.
- 5.5 To include grab handles, both sides.
- 5.6 To include full coverage anti-skid floor mat.
- 5.7 Glass:

- 5.7.1 Tinted (stick-on tinting is not acceptable).
- 5.7.2 Rear window to have tilt out capability for extra ventilation or emergency escape route.
- 5.8 Steering Wheel: To include tilt and telescopic feature.
- 5.9 Seat:
 - 5.9.1 To be multi-position with air ride suspension.
 - 5.9.2 To include arm rests.
 - 5.9.3 To include seat belt.
- 5.10 Pressurized operator environment.
- 5.11 Heater and Defrosters: Defrosters to be ducted to windshield and to rear window, area(s).
- 5.12 Air Conditioning: OEM.
- 5.13 Front and rear windshield wipers with washers, front to be two (2) speed minimum.
- 5.14 Sun visor, adjustable.
- 5.15 Two (2) exterior and one (1) interior rear view mirrors.

6.0 TRACTOR - INSTRUMENTATION:

- 6.1 Gauges/Indicators:
 - 6.1.1 Any and all gauges that show pressure, temperature, etc., are to be in U.S.A. measurements such as PSI, Fahrenheit, etc.
 - 6.1.2 Minimum dash mounted to include:
 - 6.1.2.1 Hour meter to be running engine activated, located on the dash or close to dipstick in engine compartment. An in the dash LCD type hour meter is not acceptable.
 - 6.1.2.2 Tachometer.
 - 6.1.2.3 Fuel level gauge.
 - 6.1.2.4 Engine coolant temperature gauge and audio or indicator light warning of high temperature.
 - 6.1.2.5 Engine oil pressure gauge and/or indicator light warning of low oil pressure.
 - 6.1.2.6 Voltmeter and/or visual indicator light warning of alternator failure.
 - 6.1.2.7 PTO engagement light.
 - 6.1.2.8 Turn signal indicators.
 - 6.1.2.9 High beam indicator.
 - 6.1.2.10 Parking brake "ON" indicator light.

- 6.1.2.11 Test lamp switch or computerized monitoring system (to indicate that all dash mounted warning or indicator lamps are working).

7.0 TRACTOR - HYDRAULIC SYSTEM:

- 7.1 To be capable providing 14.5 GPM to implement, minimum.
15.5 GPM implement pump.
- 7.2 To provide separate control valves for rear attachments.
- 7.3 Valve controls to be mounted forward and to the right of operator's seat.
- 7.4 Diverter valves are not acceptable.

8.0 HITCH:

- 8.1 Three (3) point, category II with category I capability, hitch (including interchangeable hitch balls).
- 8.2 Lift Capacity: Minimum capacity of 4,900 pounds at 24 inches behind hitch balls.
5,745 lbs lift capacity
- 8.3 Hitch raise/lower capability from both inside cab and from rear of tractor.
- 8.4 To include telescoping draw bar and lift arms.
- 8.5 To include rear drawbar clevis with pin and spring lock-down device.

9.0 TEN-FOOT BAT-WING ROTARY MOWER

- 9.1 Provide basic manufacturer's product brochure.
- 9.2 Batwing rotary mower attachment, PTO powered by host unit, towed from rear of tractor. Rotary mower offered is to have been specifically designed to work on the tractor being provided.
- 9.3 To be *LAND PRIDE* Model RC6010 or *SCHULTE* Model XH1000, provided all of the following specifications are met.
- 9.4 For brush cutting, up to two (2) inch diameter, minimum.
- 9.5 Weight: Unit, as specified, to have a minimum weight of 4,800 pounds.
- 9.6 Power to unit will be provided by 1000 RPM PTO from host unit.
- 9.7 Primary (Transfer or Divider) Gearbox: Minimum 180 HP rated.
- 9.8 Side and Center Gearbox: Minimum 120 HP rated.
- 9.9 Cutting Width: Ten (10) foot.
- 9.10 Cutting Height Adjustment: Adjustable from two (2) to 14 inches, minimum.
- 9.11 Blade Tip Speed: Minimum 14,620 Feet Per Minute.
- 9.12 Blade:
 - 9.12.1 To include; two (2) each complete sets of flat and two (2) each complete sets of suction, style blades. One (1) set of the flat

blades is to be installed onto the mower and the others are to be shipped loose.

9.12.2 To include all required hardware (nuts, bolts, bushings if equipped, etc.) with each set. A 'complete set' is blades with hardware for all rotors.

9.12.3 To include pan (stump jumper) for blade holder.

9.13 Wheels and Tires: To include a minimum of five (5) each puncture-proof 20 inch (minimum 20 inch) laminated tires with heavy-duty wheels that are to be able to raise the mower deck hydraulically from the operator's seat.

9.14 Front and rear chain shields to provide protection from flying debris.

9.15 To include replaceable bolt-on edge wear strips on outer wing edge.

9.16 A main deck counterweight may be required to assist in raising/lowering the outside deck to/from the transport position.

9.16.1 The raising/lowering is to be accomplished hydraulically, from the operator's seat.

9.17 Hydraulics shall provide level lifting across the width of the cutter.

9.18 Hydraulics to include float for outside wing.

9.19 Hydraulic hoses to include quick attach fittings with chained caps.

9.20 Driveline Protection: To include adjustable slip clutches.

9.21 Hitch: Pull type with tongue jack and safety chain(s).

9.22 All pivot areas are to include hardened pins with replaceable bushings and include grease zerks (press-in zerks are not acceptable).

10.0 FIFTEEN-FOOT BAT-WING ROTARY MOWER

10.1 Provide basic manufacturer's product brochure.

10.2 Batwing rotary mower attachment, PTO powered by host unit, towed from rear of tractor. Rotary mower offered is to have been specifically designed to work on the tractor being provided.

10.3 To be *LAND PRIDE* Model RC6015 or *SCHULTE* Model XH1500, provided all of the following specifications are met.

10.4 For brush cutting, up to two (2) inch diameter, minimum.

10.5 Weight: Unit, as specified, to have a minimum weight of 4,800 pounds.

10.6 Power to unit will be provided by 1000 RPM PTO from host unit.

10.7 Primary (Transfer or Divider) Gearbox: Minimum 180 HP rated.

10.8 Side and Center Gearbox: Minimum 120 HP rated.

10.9 Cutting Width: Fifteen (15) foot.

10.10 Cutting Height Adjustment: Adjustable from two (2) to 14 inches, minimum.

10.11 Blade Tip Speed: Minimum 14,620 Feet Per Minute.

10.12 Blades:

10.12.1 To include; two (2) each complete sets of flat and two (2) each complete sets of suction, style blades. One (1) set of the flat blades is to be installed onto the mower and the others are to be shipped loose.

10.12.2 To include all required hardware (nuts, bolts, bushings if equipped, etc.) with each set. A 'complete set' is blades with hardware for all rotors.

10.12.3 To include pan (stump jumper) for blade holder.

10.13 Wheels and Tires: To include a minimum of six (6) each puncture-proof 20 inch (20 inch minimum) laminated tires with heavy-duty wheels that are to be able to raise the mower deck hydraulically from the operator's seat.

10.14 Front and rear chain shields to provide protection from flying debris.

10.15 To include replaceable bolt-on edge wear strips on outer wing edges.

10.16 A main deck counterweight may be required to assist in raising/lowering the outside deck to/from the transport position.

10.16.1 The raising/lowering is to be accomplished hydraulically, from the operator's seat.

10.17 Hydraulics shall provide level lifting across the width of the cutter.

10.18 Hydraulics to include float.

10.19 Hydraulic hoses to include quick attach fittings with chained caps.

10.20 Driveline Protection: To include adjustable slip clutches.

10.21 Hitch: Pull type with tongue jack and safety chain(s).

10.22 All pivot areas are to include hardened pins with replaceable bushings and include grease zerks (press-in zerks are not acceptable).

11.0 MISCELLANEOUS:

11.1 Paint: To be manufacturer's standard.

11.2 SMV: To include Slow Moving Vehicle sign on rear of tractor.

11.3 Toolbox, OEM.

11.4 Vandalism Protection: To include locks on operator's cab, engine side shields, fuel cap, hydraulic and engine oils, and radiator cap.

11.5 Winterization:

11.5.1 Entire unit shall be winterized to provide satisfactory performance in temperatures to minus 15 degrees Fahrenheit.

11.5.2 Refer to engine cooling system for coolant protection.

11.6 Warranty:

11.6.1 Tractor to be three (3) year – two (2) part, at assigned location, as per Section III - Special Terms and Conditions.

- 11.6.2 Attachments are to be one (1) year (12-months) full (100%) warranty at assigned location, as per Section III – Special Terms and Conditions.
- 11.7 Publications: Two (2) complete sets. Refer to Section III - Special Terms and Conditions.
- 11.8 Inspection: For compliance to specifications will be conducted at the FOB point.

END OF SPECIFICATION #314-85

SECTION VI - SPECIFICATIONS

SPECIFICATION #316-125
4x4 Agricultural Tractor with 3-Point Hitch,
Side-Boom Mower and Batwing Mower Attachments (as requested)
Minimum 120 PTO HP
March 13, 2007

GENERAL SPECIFICATION:

It is the purpose of this specification to describe a new, and of the manufacturer's latest current model and design, diesel powered agricultural/utility farm tractor with; diesel engine, minimum 120 PTO HP and four wheel drive. Unit to be equipped with 3-point hitch, side-boom mower and batwing mower attachments.

To include all standard equipment and accessories as advertised in manufacturer's specification sheet of model offered, unless otherwise specified herein.

APPLICATION:

General purpose agricultural use. Unit will be subject to varying terrain and weather conditions to minus 15 degrees Fahrenheit.

UNIT TO BE PROVIDED:

CASE INTERNATIONAL Model Maxxum 140

1.0 TRACTOR - POWER TRAIN:

1.1 Engine:

- 1.1.1 Diesel, turbocharged, developing a minimum of 140 HP at manufacturers rated engine RPM.

Maxxum 140 PRO, 140 engine HP

- 1.1.2 PTO HP: Minimum 120 at manufactures rated engine RPM.

120 PTO HP

- 1.1.3 Displacement: Minimum 6.75 liter.

6.75 liter displacement

1.2 Starting Aids:

- 1.2.1 Glow plug system or grid or Thermostart or single shot canister type operated from inside the cab. The *JOHN-DEERE* Thermal Start Assist System is acceptable.

- 1.2.2 Engine Coolant Heater: One (1) each, immersion type, 110 volt AC, of highest wattage as recommended by OEM engine manufacturer.

- 1.2.3 Engine Oil Pan Heater: Silicone pad type, 300 watt.

- 1.2.4 Transmission Oil Pan Heater: Silicone pad type, 300 watt.

- 1.2.5 110 volt AC power cords for engine and transmission heaters to be plugged into a single, waterproof, 20 amp, 110 volt junction box with a minimum of four (4) receptacles. Male portion of 110 volt AC power cord to be waterproof 20 amp connector for use with 110 volt AC power source located in a position for easy access by ground personnel. To include a matching female connector, 20 amp (to be shipped loose).
 - 1.2.5.1 Junction box to be located in engine compartment, out of the elements.
- 1.3 Warning system: Audio/visual warning system to warn of high engine coolant temperature and low engine oil pressure.
- 1.4 Exhaust System: To include muffler and exhaust pipe with 90 degree elbow.
- 1.5 Air Intake System:
 - 1.5.1 Two (2) stage, dual element type, air cleaner.
 - 1.5.2 Air filter restriction indicator.
 - 1.5.3 To include pre-cleaner.
- 1.6 Cooling System:
 - 1.6.1 Viscous fan drive.
 - 1.6.2 Permanent type antifreeze protection to minus 60 degrees Fahrenheit.
- 1.7 Fuel System:
 - 1.7.1 Capacity: Minimum 66 gallons, single tank only.
 - 1.7.2 To include spin-on type filter(s).
- 1.8 Oil System: To include spin-on type filter(s).

2.0 TRACTOR - DRIVE TRAIN:

- 2.1 Transmission:
 - 2.1.1 To be *CASE* 16x16 Semi-Powershift or *JOHN DEERE* PowrQuad (16F/16R). To include easily accessed dash or column mounted forward/reverse lever that allows directional changes without using the clutch. To include minimum 16 speeds forward and 6 speeds reverse. To include creeper.
16X16 semi-powershift
 - 2.1.2 To provide a minimum forward road speed with the specified rear tires of 17 MPH.
25 MPH
 - 2.1.3 To provide traction to all four (4) wheels by a dash mounted switch.
 - 2.1.4 Transmission to include replaceable filter element, spin-on type where applicable.

2.2 Front Axle: To include limited slip or locking, differential.

Locking differential

2.2.1 The front axle is to include a suspension system. The *CASE* suspended MFD axle system and the *JOHN-Deere* TLS system are acceptable.

Case suspended FMD axle

2.3 Rear Axle: To include differential lock/unlock.

Locking rear differential

2.4 PTO: Rear drive PTO with dual speeds of 540 and 1000.

3.0 TRACTOR - CHASSIS:

3.1 Frame: Non-articulated.

3.2 Steering: To be hydrostatic.

3.3 Brakes:

3.3.1 Service:

3.3.1.1 Wet disc type.

3.3.1.2 Self-adjusting.

3.3.1.3 Self-equalizing.

3.3.2 Parking:

3.3.2.1 Wet disc type or integral with transmission.

3.3.2.2 Independent of service brakes.

3.3.2.3 Hand lever engagement.

3.4 Tires:

3.4.1 Load capacity to handle the side boom mower in all operating positions.

3.4.2 Front: To be 14.9x28 or 13.6x28, 8 ply rated, R1 traction bar, minimum.

14.9R24 (R1W)

3.4.3 Rear tires to be 18.4-34 or 18.4-38, minimum 8 ply rated, R1 traction bar, minimum. The R1W radial tire is acceptable.

18.4R34 (R1W)

3.4.4 To include spare wheel and mounted tire for front and rear (same as above).

3.5 Front Counter Weights

3.5.1 To include OEM Front-end weight bracket with minimum of five (5) each 100 pound removable weights.

3.6 Wheel Weight: Refer to side-boom mower spec.

- 3.7 Fenders: Front and rear, with extensions, if necessary (OEM). Front to be steerable.
- 3.8 Tilt hood with engine side shields and front hood guard.

4.0 TRACTOR - ELECTRICAL:

- 4.1 12-volt negative ground system.
- 4.2 Battery(s): Minimum 1,300 total CCA at zero degrees Fahrenheit.
- 4.3 Alternator: Minimum 115 Amp.
120 AMP alternator
- 4.4 Single high ampere master electric switch wired to cut off power source from battery to the ground and remainder of electrical system. To be *COLE HERSEE # 284-02*.
- 4.5 Backup Alarm: Electronic, self-adjusting sound level, *ACORN PRODUCTS* Model 1D-112AA, *PRECO* Model Preco-Matic 1040, *STAR* Model Starmatic 63-000, or *WARN* Model Reactor 2100504, located on rear of unit.
- 4.6 Lighting:
 - 4.6.1 Shall be equipped with headlights (halogen), stop lights, tail lights, turn signals, and flashing warning lights.
 - 4.6.1.1 Stop, turn and tail to be LED.
 - 4.6.2 Interior dome light.
 - 4.6.3 Work Lights:
 - 4.6.3.1 Two (2) each, adjustable, front, upper cab, halogen, minimum 55 watt each.
 - 4.6.3.2 Two (2) each, adjustable, rear, upper cab, halogen, minimum 55 watt each.
 - 4.6.3.3 Work lights to be separately switched by driver.
 - 4.6.4 Strobe Lights:
 - 4.6.4.1 Shall be two (2) each *WHELEN* Model S360.
 - 4.6.4.2 To be mounted on top of cab and visible from all directions.
 - 4.6.4.3 Both lenses to be amber in color.
 - 4.6.4.4 To be shock mounted (a rubber pad may be used).
 - 4.6.4.5 To be switched "HIGH/OFF/LOW" by driver.

4.7 Communications Package:

- 4.7.1 To include an easily accessible inside the cab fuse block or positive and negative 12-volt terminals for future installation of airport or highway communication radio.
- 4.7.2 Communications Radio Mounting Plate(s)/Bracket(s):
 - 4.7.2.1 Vendor is to provide a mounting plate(s)/bracket(s) for mounting of State owned radio and power supply.
 - 4.7.2.2 For the radio mounting, one manufacturer has been using drilled and tapped (for 3/8 inch bolts) mounting points about 6 inches apart welded to the ROPS on either side of the cab.
 - 4.7.2.3 Plates can then be bolted to these mounting points by the State.
 - 4.7.2.4 On some of the units (wheel loaders) they have included a cover plate of heavy gauge steel bolted to these points, which hides the ROPS and provides even more area to mount our equipment.
 - 4.7.2.5 This system has been working OK (on wheel loaders), but if a manufacturer has a better way of providing a mounting point we can certainly look at it.

4.8 Wiring:

- 4.8.1 All wiring to be color coded or continually numbered.
- 4.8.2 Located for maximum protection from road splash, stone abrasion, grease, oil, fuel, and heat from engine and components.
- 4.8.3 Routing through structural members to be protected by grommets.
- 4.8.4 To be secured by clips at intervals to prevent rubbing or chafing due to movement.
- 4.8.5 All wiring to be protected with wire loom.

5.0 TRACTOR - CAB:

- 5.1 Cab, insulated, shall be original equipment unitized to power unit and shall be certified ROPS.
- 5.2 Cab floor to be flat deck design (straddle mount design is not acceptable).
- 5.3 One (1) piece entry/exit doors, both sides.
 - 5.3.1 If side-boom mower is ordered with tractor, door on right side is not necessary.
- 5.4 Entry steps to include anti-skid treads, both sides.
 - 5.4.1 If side-boom mower is ordered with tractor, steps on right side are not necessary.
- 5.5 To include grab handles, both sides.

- 5.5.1 If side-boom mower is ordered with tractor, grab handles on right side are not necessary.
- 5.6 To include full coverage anti-skid floor mat.
- 5.7 Glass:
 - 5.7.1 Tinted (stick-on tinting is not acceptable).
 - 5.7.2 Rear window to have tilt out capability for extra ventilation or emergency escape route.
 - 5.7.3 All glass to be safety glass (Also refer to the side-boom mower for additional protection).
- 5.8 Steering Wheel: To include tilt and telescopic feature.
- 5.9 Seat:
 - 5.9.1 To be multi-position with air ride suspension.
 - 5.9.2 To include arm rests.
 - 5.9.3 To include seat belt.
- 5.10 Pressurized operator environment.
- 5.11 Heater and Defrosters: Defrosters to be ducted to windshield and to rear window, area(s).
- 5.12 Air Conditioning, OEM.
- 5.13 Front and rear windshield wipers with washers, front to be two (2) speed minimum.
- 5.14 Sun visor, adjustable.
- 5.15 Rear View Mirrors:
 - 5.15.1 To include two (2) exterior and one (1) interior.
 - 5.15.2 If the unit is equipped with a side-boom mower, the right side mirror is to be shipped loose with the unit.

6.0 TRACTOR - INSTRUMENTATION:

- 6.1 Gauges/Indicators:
 - 6.1.1 Any and all gauges that show pressure, temperature, etc., are to be in U.S.A. measurements such as PSI, Fahrenheit, etc.
 - 6.1.2 Minimum dash mounted to include:
 - 6.1.2.1 Hour meter to be running engine activated, located on the dash or close to dipstick in engine compartment. An in the dash LCD type hour meter is not acceptable.
 - 6.1.2.2 Tachometer.
 - 6.1.2.3 Fuel level gauge.
 - 6.1.2.4 Engine coolant temperature gauge and audio or indicator light warning of high temperature.

- 6.1.2.5 Engine oil pressure gauge and/or indicator light warning of low oil pressure.
- 6.1.2.6 Voltmeter and/or visual indicator light warning of alternator failure.
- 6.1.2.7 PTO engagement light.
- 6.1.2.8 Turn signal indicators.
- 6.1.2.9 High beam indicator.
- 6.1.2.10 Parking brake "ON" indicator light.
- 6.1.2.11 Test lamp switch or computerized monitoring system (to indicate that all dash mounted warning or indicator lamps are working).

7.0 TRACTOR - HYDRAULIC SYSTEM:

- 7.1 To have minimum of 28 GPM total flow and minimum of 25 GPM flow to all remotes.
37 GPM total flow; 26.5 GPM implement
- 7.2 To provide separate control valves for attachments.
- 7.3 Valve controls to be mounted forward and to the right of operator's seat.
- 7.4 Diverter valves are not acceptable.

8.0 HITCH:

- 8.1 Three (3) point, category III with category II capability, hitch (including interchangeable hitch balls).
- 8.2 Lift Capacity: Minimum 8,800 pounds at 24 inches behind hitch balls.
12,185 lbs.
- 8.3 Hitch raise/lower capability from both inside cab and from rear of tractor.
- 8.4 To include telescoping draw bar and lift arms.
- 8.5 To include rear drawbar clevis with pin and spring lock-down device.

9.0 SIDE-BOOM ROTARY MOWER ATTACHMENT

- 9.1 It is the purpose of the following specification to describe a right side of the tractor, mid-mounted, hydraulically powered, articulated two (2) section boom, rotary mower for cutting grass and brush on roadsides and other areas that are not accessible to conventional mowing equipment.
- 9.2 Rotary mower offered is to have been specifically designed to work on the tractor being provided.
- 9.3 To be *DIAMOND* Model DBR050CD or *TIGER* Model TRB-50C, side boom mower. Provided all of the following specifications are met.
- 9.4 Unit bid must have been in production a minimum of four (4) years and a user list shall be furnished upon request.
- 9.5 Unit bid to be manufacturer's most heavy-duty model available.
- 9.6 Reach:
 - 9.6.1 Ground level reach with cutter-head, minimum 20' 6" (20 feet 6 inches), as measured from tractor centerline.
20'6" ground level reach.
 - 9.6.2 Reach with boom and stick in most upward positions and cutter-head in vertical position, minimum 12 feet, as measured from tractor centerline.
18'6" reach
 - 9.6.3 Above ground reach with cutter-head in vertical position, minimum 22 feet.
22'6" above ground reach
 - 9.6.4 Below ground level reach with cutter-head in horizontal position, minimum 12' 8" (12 feet 8 inches).
12'8" below ground level reach.
 - 9.6.5 Side-boom mower to be capable of mowing within 37 inches of rear tractor tire.
Blade tip speed is 19,000 FPM.
- 9.7 Cutter-Head:
 - 9.7.1 Shall be rotary, hydraulically driven.
 - 9.7.2 Actual cutting width to be minimum 50 inches.
 - 9.7.3 Rotation of minimum 435 degrees.
The head has a combined rotation of 435 degrees and 50" of actual cut.
 - 9.7.4 Weight of minimum 785 pounds.
Cutter head weight is 785 pounds.

- 9.7.5 Tip Speed: With specified knives, the minimum tip speed shall be 19,000 FPM (Feet-Per-Minute) at rated auxiliary engine RPM.

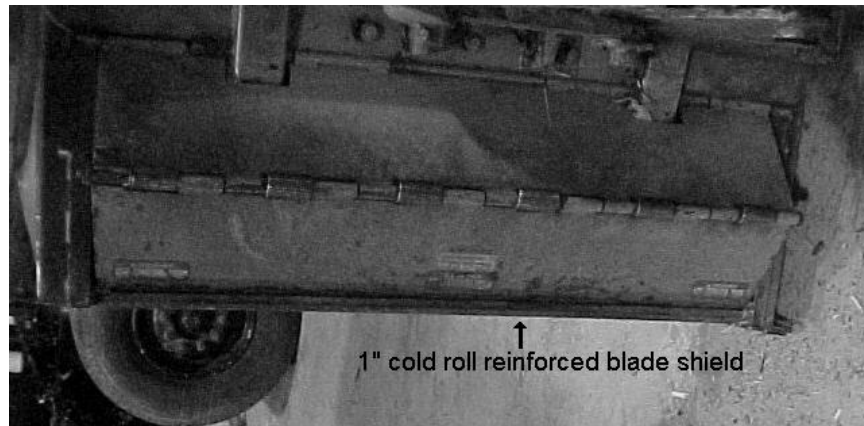
Blade tip speed is 19,000 FPM

- 9.7.6 (*) Deck to be constructed of minimum 100,000 PSI 3/16 (0.188) inch thick steel top and 3/8 (0.375) inch thick steel sides. Laminating or sandwiching of steel sheets is not acceptable.

- 9.7.7 To include replaceable bolt-on full-length skid shoes.

- 9.7.8 Front safety shield shall be easily hydraulically tilted or extended/retracted from the operator's seated position.

- 9.7.8.1 To be constructed of minimum one (1) inch thick cold roll steel, reinforced as shown:



- 9.7.9 Rear safety shield to be full-length 3-ply rubber belting.

- 9.7.9.1 In addition to the rubber belting, strips of heavy-duty 3/8 (0.375) inch chains are to be hanging side by side and extend down past the belting by two (2) inches (when head is in a horizontal position) and be welded to a heavy-duty bar that is used to bolt the top of the belt to the rear of the cutter head.

- 9.7.10 Cutting assembly shall be a 29 inch laminated 3/4 (0.75) inch steel disc with the outer edge formed at a 48 degree angle with 2.5 inches extending beyond the bend radius.

- 9.7.11 The disc is to include a minimum of two (2) each, full swinging (360 degrees), 3/4 (0.75) inch thick x six (6) inch wide heavy-duty brush blades/knives. _

- 9.7.11.1 Blades shall be connected to the disc with nuts and bolts. Pins are not acceptable.

- 9.7.11.2 **Spare brush Blades/Knives:**

- 9.7.11.2.1 To include five (5) additional sets of heavy-duty brush blades/knives, including attaching hardware.

9.7.11.2.2 Hardware (nuts, bolts, bushings if equipped, etc.) with each set. A 'complete set' is blades with hardware for all rotors.

9.7.12 Spindle:

9.7.12.1 Shall be one (1) piece forged steel, mounted in tapered roller bearings and sealed in an oil bath or shall be one piece 4340 steel, mounted in straight FAG roller bearings direct coupled with a splined replaceable threaded end.

The spindle is a one piece forged steel mounted in tapered roller bearings and sealed in an oil bath.

9.8 Main Frame: To be properly braced to rear axle and front axle housing to absorb side torque and impact of severe applications.

9.9 Boom Assembly:

9.9.1 To consist of a main boom and a stick arm (similar to an excavator).

9.9.2 Boom assembly is to include two (2) each double acting hydraulic cylinders and one (1) single acting main boom hydraulic cylinder.

9.9.2.1 All cylinder mountings to include replaceable hardened bushings, greaseable type.

9.9.2.2 All cylinders are to be mounted on top or the cylinder(s) are to be protected with heavy-duty guarding to prevent damage to cylinder(s) from contact with guardrails.

9.9.2.3 The main boom's single acting cylinder shall include an accumulator.

9.9.3 Secondary boom cylinder shall have a spherical bearing on the rod end.

9.9.4 Swing:

9.9.4.1 To have swing capability of moving minimum 26 degrees forward and 28 degrees rearward with limited relief protection.

9.9.4.2 For swing, the main boom is to be supported by a hardened plain bearing having not less than 37 square inches of bearing area or by two (2) each 2-1/2 (2.5) inch roller bearings.

The main boom is supported by a hardened plain bearing with 37 square inches of bearing area.

9.9.5 Stick arm to include a double acting hydraulic cylinder for horizontal movement of cutter head.

9.10 Hydraulics:

- 9.10.1 The hydraulics for complete operation of the side boom mower shall be powered by a pump that is connected to the engine's front crankshaft.
- 9.10.2 Hydraulic Pump and Motor:
 - 9.10.2.1 Hydraulic pump(s) and motor(s) are to be USA manufactured and have warranty and service centers in Anchorage and Fairbanks, as a minimum.
US Manufactured by parker with service centers in Alaska
 - 9.10.2.2 Hydraulic pump shall be mounted in line with crankshaft of engine.
 - 9.10.2.3 Pump's drive shaft shall have a rating of not less than 180 HP.
 - 9.10.2.4 The hydraulic pump shall be gear type with cast steel housing and steel gears, specifically excluding the aluminum pump, and be capable of absorbing a minimum of 98 HP at rated engine RPM and produce 44 GPM at 3,000 PSI.
 - 9.10.2.5 The hydraulic motor shall be gear type with steel cast housing and steel gears, specifically excluding the aluminum motor, and produce not less than 99 HP at 3,000 PSI at rated RPM.
 - 9.10.2.6 The pump shall include a heavy-duty bolt-on (to the tractor frame) steel guard to help protect the pump.
- 9.10.3 Hydraulic Reservoir:
 - 9.10.3.1 Capacity: Minimum 65 gallons and be filled with minimum 52 gallons.
Hydraulic capacity is 65 gallons
 - 9.10.3.2 Oil level in the tank to be above the pump to help prevent possibility of cavitations.
 - 9.10.3.3 Return Filter: To be in-tank, rated at 75 GPM, 25 micron element, with restriction gauge.
 - 9.10.3.4 Suction and return to be equipped with brass ball valves if required to prevent oil loss when performing maintenance on oil filter or hoses.
 - 9.10.3.5 Suction outlet to include a 100 mesh in the tank screen located slightly off the bottom.
 - 9.10.3.6 Hydraulic oil to have a minimum of one (1) PSI pressure at the reservoir suction outlet.
 - 9.10.3.7 Fill cap to include chain and easily removed strainer basket.

- 9.10.3.8 Sight gauge to be easily seen by ground maintenance personnel.
- 9.10.3.9 Drain plug, $\frac{3}{4}$ (0.75) inch ID to include magnet.
- 9.10.4 Lift control valve system to include four (4) tapered spools of the metering type, equipped with eight (8) pilot pressure reliefs.
- 9.10.5 Oil to cutter head or broom rotation shall not pass through a restriction-causing valve while operating cutter head or broom rotation.
 - 9.10.5.1 Valve shall be electrically controlled pilot operated floating spool with starter lock-out.
 - 9.10.5.2 Valve shall not cause restriction to generate drift while in the off position.
- 9.10.6 Hoses:
 - 9.10.6.1 Hydraulic lines running into the operator's cab are not acceptable.
 - 9.10.6.2 Suction line to be an unrestricted $1\frac{1}{2}$ (1.5) inch minimum inside diameter (specifically excluding suction filters and screens).
 - 9.10.6.3 Pressure and return system hoses to be minimum one (1) inch unrestricted inside diameter. Pressure hoses shall have a burst pressure four (4) times the working pressure.
 - 9.10.6.4 Pressure, return and lift system steel hydraulic lines shall be mounted at rear of inner boom arm and at rear or fastened to the inside of outer boom.
 - 9.10.6.5 All hoses and lines are to be properly sized, installed, and secured, to provide adequate function speed, proper bend radius, and avoid say and chaffing.
 - 9.10.6.6 Hoses at the pump are to include adequately sized quick couplers with chained caps to allow usage of the pump to supply adequate flow to the sweeper broom's rotation motor(s).
- 9.11 Controls:
 - 9.11.1 Joystick Assembly:
 - 9.11.1.1 To be electric over hydraulic for functions.
 - 9.11.1.2 Location: Shall be pedestal mounted to the right of the operator's knee position, allowing the joystick to be controlled with the operator using the seat's armrest thus helping eliminate operator fatigue.
 - 9.11.1.3 Mounting shall be properly reinforced to prevent fatigue failure.

- 9.11.1.4 Joystick functions are to be properly displayed as to its function. Labels are to be engraved, or if not, they are to include part numbers and are to be listed in the parts manual. Engraved labels are to be secured with rivets or screws.
- 9.11.2 Hydraulic lines in the operator's cab are not acceptable.
- 9.12 Cab Window Glass Protection:
 - 9.12.1 The right hand side window(s) to be of, or be covered with, high impact, hardened polycarbonate type material. To be a minimum thickness of 3/8 (0.375) inch.
The right side window will be covered with 3/8" polycarbonate.
 - 9.12.2 If the existing glass is covered with the high impact, hardened polycarbonate type material, the required gap between the two must include a swing-away system to allow for quick and easy cleaning between them without the use of tools.
Does include swing away system.
- 9.13 Wheel Weight: A weight of minimum 1,400 pounds, to be mounted on left rear wheel (frame mounted weight, or tire filled water and/or calcium chloride, are not acceptable).
- 9.14 Transport:
 - 9.14.1 For transport storage, the unit shall be equipped with either a cab controlled boom lock, or boom cradle.
 - 9.14.2 When or if the tractor is equipped with a 15 foot bat-wing mower, placing the side-boom mower into the transport position is not to interfere with the operation of the bat-wing mower or when the bat-wing mower is in a stored/transport position.
- 9.15 The unit, whether in storage or in operation, shall have no affect on the operation of a rear batwing mower operation, if so equipped. Both must be able to work simultaneously.
- 9.16 All pivot areas are to include hardened pins with replaceable bushings or bearings and include grease zerks (press-in zerks are not acceptable).

10.0 MISCELLANEOUS:

- 10.1 Paint: To be manufacturer's standard.
- 10.2 SMV: To include Slow Moving Vehicle sign on rear of tractor.
- 10.3 Toolbox, OEM.
- 10.4 Vandalism Protection: To include locks on operator's cab, engine side shields, fuel cap, hydraulic and engine oils, and radiator cap.
- 10.5 Winterization:
 - 10.5.1 Entire unit shall be winterized to provide satisfactory performance in temperatures to minus 20 degrees Fahrenheit.

- 10.5.2 Refer to engine cooling system for coolant protection.
- 10.6 Warranty:
 - 10.6.1 Tractor to be three (3) year – two (2) part, at assigned location, as per Section III - Special Terms and Conditions.
 - 10.6.2 Attachments are to be one (1) year (12-months) full (100%) warranty at assigned location, as per Section III – Special Terms and Conditions.
- 10.7 Publications: Two (2) complete sets. Refer to Section III - Special Terms and Conditions.
- 10.8 Inspection: For compliance to specifications will be conducted at the FOB point.

END OF SPECIFICATION #316-125